

## Message Text

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ACTION ARA-10

INFO OCT-01 ISO-00 EB-05 RSC-01 DRC-01 /018 W

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R 101912Z SEP 74

FM AMEMBASSY BOGOTA

TO USDOC WASHDC

INFO SECSTATE WASHDC 4738

AMCONSUL CALI

AMCONSUL MEDELLIN

UNCLAS BOGOTA 8070

E.O. 11652: NA

TAGS: BGEN CO

SUBJECT: EARLY WARNING-FUTURE CONSTRUCTION: PATIA HYDROELECTRIC  
PROJECT

REF: STATE A-3450 STATE A-9633

MAJOR GROUP 99 CODE 9918102

IN ACCORDANCE WITH INSTRUCTIONS CONTAINED IN REFARIS,  
FOLLOWING ARE DETAILS OF PROJECT:

1. PROJECT TITLE: PATIA I HYDROELECTRIC PROJECT
2. PROJECT DESCRIPTION: CONSTRUCTION OF A ROCKFILL DAM WITH IMPERVIOUS CORE, 240 METERS HIGH AND 550 METERS LONG, FOR ELECTRIC POWER GENERATION. PROJECT IS LOCATED ON THE PATIA RIVER IN THE DEPARTAMANTO (STATE) OF NARINO IN THE SOUTH WESTERN SECTION OF COLOMBIA. AT THE WORKING ZONE THE RIVER HAS A TOTAL DRAINAGE AREA OF 13.123 SQUARE KILOMETERS WITH AN AVERAGE FLOW VOLUME OF 343 CUBIC METERS PER SECOND. DAM'S OVERFLOW LEVEL (SPILLWAY) WILL BE OF THE CHUTE TYPE WITH GATES DESIGNED FOR A MAXIMUM FLOW VOLUME OF 6,200 CUBIC METERS PER SECOND. CONSTRUCTION OF POWER HOUSE IS ALSO REQUIRED. ENTIRE PROJECT WILL GENERATE A TOTAL OF 1540 MW AT A LOADING FACTOR OF 40 PERCENT. FEASIBILITY STUDY FOR PROJECT HAS RECENTLY BEEN COMPLETED BY THE COLOMBIAN FIRM HIDROESTUDIOS IN CONJUNCTION WITH AMERICAN FIRM HARZA ENGINEERING COMPANY.

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3. COST: ESTIMATED COST OF PROJECT AMOUNTS TO 9.2 BILLION

PESOS OR ABOUT 350 MILLION DOLLARS AT JAN 1974 PRICE LEVELS.

4. FINANCING: SOURCES OF FINANCING HAVE NOT YET BEEN DETERMINED, ALTHOUGH ACCORDING TO INFORMATION OBTAINED A FORMAL REQUEST WILL BE MADE TO THE WORLD BANK.

5. ENGINEERING AND CONSULTIN SERVICES REQUIRED: DESIGN, CONSTRUCTION, CONSTRUCTION SUPERVISION, AND PLACING INTO OPERATION.

6. A. EQUIPMENT TO BE PROCURED: FOUR VERTICAL AXIS, FRANCES TYPE TURBINES WITH NOMINAL HEAD OF 210 METERS, NOMINAL FLOW VOLUME OF 880 CUBIC METERS PER SECOND, AND A NOMINAL SPEED OF 166.7 RPM.

6.B. FOUR 405 MVA CAPACITY GENERATORS.

6.C. ONE 1865 MVA NOMINAL CAPACITY COMPLETE SWITCHYARD.

6.D. TRANSMISSION LINE BETWEEN WORKING ZONE AND YUMBO (SMALL TOWN LOCATED NEAR CALI) WITH A TOTAL LENGTH OF 250 KILOMETERS AND THREE CIRCUITS OF 500 KV.

E. ALL NECESSARY ELECTRICAL EQUIPMENT, TRANSFORMERS, CONTROL AND POWER CABLES, BRIDGE CRANES, PUMPS, OTHER MECHANICAL EQUIPMENT, ETC

F. ESTIMATED COST OF EQUIPMENT AMOUNTS OF ABOUT 25 PER CENT OF TOTAL PROJECT COST.

7. PROCEDURES: CONTRACTS FOR DESIGN, CIVIL WORKS, AND SUPPLYING OF EQUIPMENT WILL BE AWARDED ON THE BASIS OF INTERNATIONAL COMPETITIVE BIDDING.

8. TIMING AND DEADLINES: ENTIRE PROJECT IS EXPECTED TO BE CONCLUDED BY 1983. IF WORLD BANK FINANCING IS INVOLVED BIDS SHOULD HAVE A MINIMUM TERM OF 45 DAYS BETWEEN OPENING AND CLOSING DATES.

9. COMPANY OR IMPLEMENTING AGENCY:

INSTITUTO COLOMBIANO DE ENERGIA ELECTRICA (ICEL)

CARRERA 13 NO 27-00, PIOS 3

BOGOTA COLOMBIA

10 POINTS OF CONTACT: INTERESTED US FIRMS CAN CONTACT AT ICEL, EITHER DR ALVARO HERRERA FERNANDEZ, SUB-GERENTE TECNICO, OR DR JUVENAL PENALOSA JEFE DIVISION DE COORDINACION Y EJECUCION DE PROYECTOS.

11. POTENTIAL COMPETITION: FOR DESIGN STUDY AND CIVIL WORKS, COMPETITION IS EXPECTED FROM COLOMBIAN, JAPANESE AND EUROPEAN FIRMS. JAPANESE AND EUROPEAN FIRMS WILL ALSO UNCLASSIFIED

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COMPETE FOR EQUIPMENT SUPPLY.

12. COMMENTS: THIS IS ONE OF THE LARGEST POWER PROJECTS THAT THE GOC IS PLANNING TO IMPLEMENT WITHIN THE NEAR FUTURE. ICEL WILL SUPERVISE PROJECT UNTIL DESIGN STUDY IS CONCLUDED AT WHICH TIME IT WILL TURN PROJECT OVER TO INTERCONEXION ELECTRICA S.A. A CORPORATION WITH THE MAIN COLOMBIAN UTILITIES AS PARTNERS.

(ISA). IT IS EXPECTED THAT FIRST CALLS FOR THE PRE-  
QUALIFICATIONS OF FIRMS FOR THE DESIGN STUDY WILL COME  
OUT WITHIN NEXT TWO-THREE MONTHS. US FIRMS CAN PARTICIPATE,  
WITH GOOD PROSPECTS IN THE DESIGN STUDY, CONSTRUCTION  
SUPERVISION AND EQUIPMENT SUPPLY BIDS.  
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## Message Attributes

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**Decaption Date:** 01 JAN 1960  
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**Page Count:** 3  
**Previous Channel Indicators:**  
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**Reference:** STATE A-3450 STATE A-9633  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** smithrj  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 27 MAR 2002  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <27 MAR 2002 by maustmc>; APPROVED <28 JAN 2003 by smithrj>  
**Review Markings:**

Declassified/Released  
US Department of State  
EO Systematic Review  
30 JUN 2005

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** EARLY WARNING-FUTURE CONSTRUCTION: PATIA HYDROELECTRIC PROJECT  
**TAGS:** BGEN, CO  
**To:** COM  
**Type:** TE  
**Markings:** Declassified/Released US Department of State EO Systematic Review 30 JUN 2005